Dear Editor:

On behalf of my co-authors, I am submitting the enclosed material “Study on mineralogical crystallization of granulation of gas quenching blast furnace slag” for possible publication in “[JOURNAL OF THE SERBIAN CHEMICAL SOCIETY](http://www.letpub.com.cn/index.php?page=journalapp&view=detail&journalid=5356)”.We certify that we have participated sufficiently in the work to take public responsibility for the appropriateness of the experimental design and method. This paper is new and neither the entire paper nor any part of its content has been published or has been accepted elsewhere. It is not being submitted to any other journal.

The process of granulation of BFS by gas quenching can effectively recover the waste heat energy of BFS and improve added-value of the BFS product. With the decrease of temperature, the BFS crystallizes melilite, anorthite, spinel and so on, but the mineralogical crystallization is not conducive to producing amorphous BFS beads.In this paper, thermodynamic software Factsage is used to simulate the crystallization process of blast furnace slag, and the result of XRD and SEM is used to verified the accuracy of simulation. The result show that the mineralogical crystallization in the process of granulation of gas quenching BFS can be prevented at the gas quenching temperature by controlling the components .

We hope this paper is suitable for “[JOURNAL OF THE SERBIAN CHEMICAL SOCIETY](http://www.letpub.com.cn/index.php?page=journalapp&view=detail&journalid=5356)”. Looking forward to hearing from you sincerely.

Thank you.

Yours sincerely,

Kang Yue

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